



Performance Data Sheet

AWG5517EVA

General Information

Model	AWG5517EVA	Refrigerant	R-22
Test Condition	ARI	Performance Test Voltage	220V ~ 50HZ
Return Gas	18.3°C (65°F) RETURN GAS	Motor Type	PSC

Performance Information

Evap Temp (°F)	Condensing Temperature (°F)							
		80	90	100	110	120	130	140
-15	Btu/h	3370	2890					
	Watts	631	611					
	Amps	3.17	3.09					
	Lb/h	43.3	38.9					
-10	Btu/h	4270	3730	3140				
	Watts	694	681	668				
	Amps	3.46	3.40	3.35				
	Lb/h	54.6	49.8	43.9				
-5	Btu/h	5260	4660	4010	3330			
	Watts	751	746	741	731			
	Amps	3.72	3.70	3.68	3.64			
	Lb/h	66.9	61.7	55.4	48.3			
0	Btu/h	6360	5690	4970	4220	3470		
	Watts	802	806	809	808	799		
	Amps	3.95	3.97	3.99	3.98	3.94		
	Lb/h	80.4	74.7	68.0	60.4	52.1		
5	Btu/h	7570	6820	6020	5200	4370		
	Watts	847	860	872	881	882		
	Amps	4.15	4.21	4.27	4.31	4.31		
	Lb/h	95.1	89.0	81.8	73.7	64.9		
10	Btu/h	8900	8060	7180	6270	5370	4480	3630
	Watts	885	908	930	949	960	960	945
	Amps	4.33	4.43	4.53	4.62	4.67	4.66	4.59
	Lb/h	111	105	96.9	88.3	79.0	69.2	59.1
15	Btu/h	10400	9430	8450	7460	6460	5490	4560
	Watts	917	950	983	1010	1040	1050	1040
	Amps	4.47	4.62	4.77	4.90	5.00	5.05	5.03
	Lb/h	129	121	113	104	94.4	84.1	73.5
20	Btu/h	12000	10900	9850	8760	7670	6600	5580
	Watts	941	986	1030	1070	1110	1130	1140
	Amps	4.58	4.78	4.98	5.17	5.32	5.42	5.45
	Lb/h	147	140	131	122	111	100	89.2

25	Btu/h	13700	12600	11400	10200	8990	7820	6700
	Watts	959	1020	1070	1130	1170	1210	1230
	Amps	4.66	4.91	5.17	5.41	5.62	5.77	5.86
	Lb/h	168	160	151	140	130	118	106
30	Btu/h	15600	14400	13100	11700	10400	9160	7930
	Watts	969	1040	1110	1170	1230	1280	1320
	Amps	4.71	5.02	5.33	5.63	5.89	6.11	6.26
	Lb/h	190	181	172	161	149	137	125
35	Btu/h	17700	16300	14900	13500	12000	10600	9290
	Watts	972	1050	1140	1220	1290	1350	1400
	Amps	4.72	5.09	5.46	5.82	6.15	6.42	6.64
	Lb/h	214	205	194	183	171	158	146
40	Btu/h	19900	18400	16900	15300	13800	12200	10800
	Watts	967	1060	1160	1250	1340	1420	1480
	Amps	4.69	5.13	5.56	5.98	6.38	6.72	7.01
	Lb/h	240	230	219	207	194	181	168
45	Btu/h	22400	20700	19000	17300	15700	14000	12400
	Watts	953	1060	1180	1290	1390	1480	1560
	Amps	4.63	5.13	5.63	6.12	6.59	7.00	7.35
	Lb/h	268	257	246	233	220	206	192
50	Btu/h	25000	23200	21400	19500	17700	15900	14200
	Watts	932	1060	1190	1310	1430	1540	1630
	Amps	4.54	5.10	5.68	6.24	6.77	7.26	7.68
	Lb/h	298	286	274	261	247	232	217
55	Btu/h	27800	25900	23900	21900	19900	18000	16100
	Watts	902	1040	1190	1330	1460	1590	1700
	Amps	4.40	5.04	5.69	6.32	6.93	7.49	7.99
	Lb/h	330	318	305	291	276	261	245

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	7.508112E+03	1.222707E+03	5.658278E+00	6.222385E+01
C2	3.632777E+02	-3.560658E+00	-1.212029E-02	3.538768E+00
C3	5.767661E+01	-1.479328E+01	-6.225391E-02	1.161465E+00
C4	3.475719E+00	-2.345983E-01	-1.080819E-03	2.845374E-02
C5	-1.813880E+00	1.527430E-01	6.262076E-04	-9.121224E-03
C6	-1.179594E+00	1.699079E-01	7.337974E-04	-1.428629E-02
C7	1.208310E-02	-2.847375E-04	-1.198701E-06	1.212198E-04
C8	-1.527050E-02	1.363690E-03	6.297887E-06	-4.777318E-05
C9	1.860247E-03	1.444296E-04	8.857843E-07	6.371712E-07
C10	3.485941E-03	-6.336652E-04	-2.784713E-06	3.252407E-05

$$\text{Value} = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3$$

Te = Evaporator Temperature

Tc = Condensing Temperature



Performance Data Sheet

AWG5517EVA

General Information

Model	AWG5517EVA	Refrigerant	R-22
Test Condition	ARI	Performance Test Voltage	265V ~ 60HZ
Return Gas	18.3°C (65°F) RETURN GAS	Motor Type	PSC

Performance Information

Evap Temp (°F)	Condensing Temperature (°F)							
		80	90	100	110	120	130	140
-15	Btu/h	4110	3780					
	Watts	819	819					
	Amps	3.18	3.18					
	Lb/h	53.2	50.8					
-10	Btu/h	5000	4530	4030				
	Watts	869	873	874				
	Amps	3.38	3.39	3.39				
	Lb/h	64.1	60.6	56.0				
-5	Btu/h	6080	5490	4850	4210			
	Watts	922	931	937	937			
	Amps	3.58	3.61	3.63	3.62			
	Lb/h	77.5	72.8	67.0	60.7			
0	Btu/h	7360	6640	5870	5090	4350		
	Watts	976	992	1000	1010	1010		
	Amps	3.78	3.84	3.88	3.89	3.89		
	Lb/h	93.1	87.4	80.5	72.9	65.0		
5	Btu/h	8840	7980	7080	6170	5280		
	Watts	1030	1050	1070	1080	1090		
	Amps	3.99	4.07	4.13	4.18	4.19		
	Lb/h	111	104	96.3	87.6	78.5		
10	Btu/h	10500	9510	8480	7420	6390	5430	4580
	Watts	1080	1110	1140	1160	1170	1170	1160
	Amps	4.18	4.29	4.39	4.46	4.51	4.51	4.48
	Lb/h	131	123	114	105	94.4	84.2	74.4
15	Btu/h	12300	11200	10100	8860	7690	6580	5580
	Watts	1130	1170	1210	1230	1250	1260	1260
	Amps	4.36	4.51	4.64	4.75	4.82	4.86	4.85
	Lb/h	153	145	135	124	113	101	90.3
20	Btu/h	14400	13100	11800	10500	9160	7910	6750
	Watts	1170	1220	1270	1310	1340	1360	1370
	Amps	4.51	4.70	4.88	5.02	5.13	5.21	5.24
	Lb/h	177	168	157	145	133	121	108

25	Btu/h	16600	15200	13700	12300	10800	9400	8100
	Watts	1210	1270	1330	1380	1420	1450	1470
	Amps	4.64	4.88	5.10	5.28	5.44	5.55	5.62
	Lb/h	203	193	182	169	156	142	129
30	Btu/h	18900	17400	15800	14200	12600	11100	9600
	Watts	1230	1310	1380	1440	1500	1540	1570
	Amps	4.73	5.02	5.29	5.53	5.73	5.88	5.99
	Lb/h	231	220	208	195	181	166	152
35	Btu/h	21500	19800	18100	16300	14600	12900	11300
	Watts	1250	1340	1420	1500	1570	1620	1660
	Amps	4.79	5.13	5.45	5.74	5.99	6.20	6.35
	Lb/h	260	249	236	222	207	192	177
40	Btu/h	24200	22400	20500	18600	16700	14900	13100
	Watts	1250	1360	1460	1550	1630	1700	1760
	Amps	4.79	5.20	5.58	5.92	6.23	6.49	6.70
	Lb/h	291	280	266	252	236	220	204
45	Btu/h	27000	25100	23100	21100	19000	17000	15100
	Watts	1240	1360	1480	1590	1690	1770	1840
	Amps	4.75	5.22	5.66	6.07	6.43	6.75	7.01
	Lb/h	324	312	298	283	267	250	233
50	Btu/h	30100	28000	25800	23600	21400	19300	17200
	Watts	1210	1350	1490	1610	1730	1830	1920
	Amps	4.64	5.18	5.69	6.16	6.59	6.98	7.30
	Lb/h	358	346	331	316	299	281	264
55	Btu/h	33200	31000	28700	26400	24000	21700	19500
	Watts	1160	1330	1480	1630	1760	1880	1980
	Amps	4.47	5.09	5.67	6.21	6.71	7.16	7.55
	Lb/h	394	381	366	350	333	315	297

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	6.428234E+03	8.498292E+02	3.625304E+00	4.475171E+01
C2	4.594696E+02	-3.073891E+00	-1.211210E-02	4.441491E+00
C3	1.349964E+02	8.549890E-02	-8.438246E-03	2.186395E+00
C4	4.022874E+00	-2.111109E-01	-7.964270E-04	3.273475E-02
C5	-2.036843E+00	2.111582E-01	7.970961E-04	-7.324898E-03
C6	-2.085484E+00	3.590611E-02	2.135069E-04	-2.568084E-02
C7	-5.587024E-03	-2.312197E-03	-8.314385E-06	-1.118002E-04
C8	-2.181480E-03	2.514083E-03	9.218400E-06	1.462367E-04
C9	-3.279808E-03	-4.555704E-04	-1.674739E-06	-7.785333E-05
C10	6.799122E-03	-2.147838E-04	-1.041082E-06	7.390862E-05

$$\text{Value} = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3$$

Te = Evaporator Temperature

Tc = Condensing Temperature